

BID SOLICITATION NOTICE

TO RECEIVE A BID PACKAGE, BIDDERS MAY EITHER DOWNLOAD THE REQUEST FOR BIDS ("RFB") FROM THE AUTHORITY'S WEBSITE AT <http://www.state.nj.us/turnpike/purchasing.html> OR REQUEST A BID BY COMPLETING THIS FORM AND FAXING IT TO THE NUMBER STATED BELOW. FOR RECORD KEEPING PURPOSES, THE AUTHORITY REQUESTS THAT THE BIDDER COMPLETE THIS FORM AND RETURN IT TO THE PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT, EVEN WHEN A BIDDER IS DOWNLOADING THE RFB. THIS IS THE ONLY NOTICE OF BIDDING FOR THE FOLLOWING GOODS.

THE NEW JERSEY TURNPIKE AUTHORITY PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT

New Jersey Turnpike Administrative Offices
P.O. Box 5042, 581 Main Street
Woodbridge, New Jersey 07095-5042
Tel. - 732-750-5300 Ext. 8640 Fax - 732-750-5399

TITLE: **WORKSTATION CONSOLES – FURNISH AND INSTALL**
BID NO: **R-111996**
DUE DATE: **JANUARY 6, 2015**
TIME: **11:00 AM**

SUBMIT BIDS BEFORE THE DUE DATE AND TIME STATED ABOVE TO THE ABOVE ADDRESS

BIDDER INFORMATION (PLEASE PRINT)

NAME OF BIDDING ENTITY

ADDRESS

CITY, STATE AND ZIP CODE

E-MAIL ADDRESS

REPRESENTATIVE TO CONTACT-NAME & TITLE

TELEPHONE NO

FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO

FAX NO

☐

WE HAVE DOWNLOADED THE BID FROM THE AUTHORITY WEBSITE

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PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT

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FAX NO

_____ BUSINESS CORPORATION _____ PARTNERSHIP _____ INDIVIDUAL

_____ OTHER (SPECIFY) _____

SECTION I

A. INTRODUCTION

The New Jersey Turnpike Authority (the “Authority”) was created by an act of the New Jersey Legislature in 1948, known as the New Jersey Turnpike Authority Act (as amended and supplemented, “Act”). The Act authorizes the Authority to construct, maintain, repair, and operate the New Jersey Turnpike, to collect tolls, and to issue Turnpike Revenue Bonds or Notes, subject to the approval of the Governor, payable from tolls and other revenues of the Authority. On May 27, 2003, the Act was amended to empower the Turnpike to assume all powers, rights, obligations and duties of the New Jersey Highway Authority (the “Highway The Authority”), which owned and operated the Garden State Parkway and PNC Bank Arts Center. On July 9, 2003, the Authority assumed all powers, rights, obligations and duties of the Highway Authority. The Authority currently operates both the Garden State Parkway (“GSP”) and the New Jersey Turnpike (“Turnpike”) (both roads are collectively referred to herein as the “Roadways”).

The Authority is governed by an eight member Board of Commissioners (“Board”). The Governor of New Jersey appoints each of its members and has the statutory Authority to overturn an action of the Board by vetoing any Board action within 10 days of receiving the minutes of the meeting. The Board authorizes awards of all public contracts over \$35,000, except in cases where it has delegated Authority to the Executive Director.

This bid solicitation is being conducted pursuant to the Authority’s enabling statute as found in N.J.S.A. 27.23-6.1 and Executive Order number 37 (Corzine 2006) and the regulations and policies of the Authority with regard to public bid procurement.

B. BIDDER GUIDELINES/CHECKLIST

1. The Request for Bids ("RFB"), including specifications and related bid documents ("Bids") must be received at or before the due date and time stated on the cover page at the following place: New Jersey Turnpike Authority, Administration Building, 581 Main Street, Woodbridge, New Jersey 07095. Late Bids will be returned unopened. Telephone or facsimile Bids will not be accepted.
2. The entity submitting a Bid ("Bidder") must provide one original and one copy of the Bid. The Bid must include all price information. Bid prices shall include delivery of all items F.O.B. destination or as otherwise provided. Price quotes must be firm through issuance of contract.
3. All Bid prices must be typed or written in ink. Quote the specified unit of measure. If bidding an alternate, provide detailed specifications. All corrections, white-outs, erasures, re-striking of type, or other forms of alteration or the appearance of alteration, to unit and/or total prices must be initialed in ink by the Bidder.
4. There will be a **Pre-Bid Meeting at 10:00AM on Wednesday, December 17, 2014**, at the New Jersey Turnpike Administrative Offices, 581 Main St., Woodbridge, NJ. **While optional, attendance is strongly encouraged.**
5. If checked this RFB requires the following mandatory document(s) or the Bid **will** be rejected:
 - (a) Bid Bond or Cashier's Check for 10% of the amount Bid or a Letter of Surety ☒
 - (b) Stockholder/Partnership Disclosure Statement ☒
6. See the Authority's Instruction to Bidders for a complete list of the Authority's standard contract Terms and Conditions, as well as required forms that must be included with the Bid (**ATTACHED**).
7. **The following checked documents are required for this Bid. Failure to submit the required forms may result in the rejection of the Bid.**
 - (a) State of New Jersey Division of Revenue Business Registration Certificate ☒
 - (b) Certification of Registration with the Secretary of State (only if non-NJ corporation) ☒
 - (c) Acknowledgement of requirement for Disclosure of Political Contributions (ELEC) ☒
 - (d) Public Works Contractor Registration Certificate(s) (if applicable) ☐
 - (e) Affirmative Action Information Sheet with Certificate or Form AA302 ☒
 - (f) Signed Mandatory Equal Employment Opportunity Language ☒
 - (g) SBE/WBE/MBE Certificates and Form ☒
 - (h) Vendor Disclosure Form (EO129-Location of Services) ☒
 - (i) Notice of Set-Off for State Tax (P.L. 1999, c 159) ☒
 - (j) Automobile Insurance Liability Waiver ☐
 - (k) Insurance Certificate ☒
 - (l) Disclosure of Investment in Iran ☒
8. Bidder must sign Bid ☒
9. Required Project Submittals ☒

SECTION II

A. INTENTION

1. Sealed Bids for **R-111996** must be received at the New Jersey Turnpike Authority Administrative Offices, 581 Main Street, Woodbridge, New Jersey 07095-5042, by the due date and time stated on the cover page of this “RFB” at which time and place said Bid will be opened and read in public.
2. Bidders mailing Bids should allow for their normal mail delivery time to ensure timely receipt of the Public Bids. **Please be advised that using an overnight/next-day delivery service does not guarantee overnight/next-day deliveries to our location. The Authority will not be responsible for any Bid not being received by the required date and time.**
3. It is the intention of the Authority to issue a purchase order or notice of award for a price agreement for the procurement of **WORKSTATION CONSOLES – FURNISH AND INSTALL.**
4. Items purchased under this contract will be delivered as directed by the Authority.
5. Please contact Richard Bava with any questions regarding this procurement contract at 732-750-5300 x-8636, or rbava@turnpike.state.nj.us.

B. BID SHEET INSTRUCTIONS

1. Bidders must follow all instructions in this RFB and in the Instructions to Bidders issued by the Authority, and any other documents issued by the Authority in connection with this RFB (collectively, “Bid Documents”).
2. Bidders must examine the bid documents carefully before bidding and must ask the Director of Procurement and Materials Management Department (“PMM”) in writing for any interpretation or correction of any apparent ambiguity, inconsistency or apparent error therein. If necessary, an interpretation or correction to the specifications shall be issued by the Director of PMM in response to inquiries and/or addendum shall be faxed to Bidders who have obtained the Bid Documents. Upon the issuing of an addendum, the addendum shall become part of the bid documents. **Requests for interpretation or correction shall be considered only if received at least 5 business days prior to the Bid opening date.**
3. Written requests can be submitted by FAX at 732-750-5399.

4. The submission of the Bid is conclusive evidence that the Bidder is fully aware of the conditions, requirements, and details as stated in the Bid Documents. If the Bidder, prior to submitting its Bid, fails to notify the Director of PMM of the existence of an ambiguity or inconsistency in the Bid Documents, a Bid will conclusively be presumed to have been based upon the Authority's interpretation of such ambiguity or inconsistency.
5. All erasures, interpolations or other physical changes on the Bid form shall be signed or initialed by the Bidder. Bids containing any conditions, omissions, erasure's, alterations, or items not called for in this "RFB" or irregularities of any kind, may be rejected by the Authority, in its sole discretion.

The Bidder shall not attach conditions, limitations or provisos to their Bid, except in cases where "exceptions" are permitted.

6. The Authority will accept Approved Equivalent items on this Bid. If a Bidder is basing the proposal on items other than what is specified, and wishes the items proposed to be considered as an "Approved Equivalent", the Bidder shall enter a price on the Bid sheet then submit on the Exception Sheet in the exact format of the line item on the RFB contained herein, the item number, an item description including manufacturers name, model number, informational brochure(s), and packaging quantities of those items that the Bidder proposes to substitute.

C. BASIS OF AWARD

1. **Bidders must supply a price for every item listed. Bids not having a price for all listed items may be rejected.**
2. **Bidders must quote only one price per line item. If a Bidder quotes multiple prices per line item, the Bid may be rejected.**
3. The Authority will purchase amounts of any given item as needed, at the sole discretion of the Authority and shall not be bound by any quantities listed. The Authority reserves the right to make reasonable increases or decreases to line item quantities.
4. All items are to be Bid FOB Destination. All shipping, handling, and other costs should be considered in the Bid price.
5. The Authority is tax exempt from New Jersey Sales and Excise Tax.
6. Award will be made to the **responsive, responsible bidder with the lowest Grand Total Bid Price.**

D. PRE-BID MEETING

There will be a **Pre-Bid Meeting at 10:00AM on Wednesday, December 17, 2014,** at the New Jersey Turnpike Administrative Offices, 581 Main St., Woodbridge, NJ. While optional, **attendance is strongly encouraged.**

E. CONTRACT BOND

A Contract Bond will be required from the successful bidder after award of the Contract. The **Contract Bond shall be for 10 % of the amount bid,** on the New Jersey Turnpike Authority form, fully executed by the Contractor and the bonding company licensed to do business in the State of New Jersey with an AM Best Rating of A-VII or better.

F. MISCELLANEOUS

1. Delivery Date _____
(Insert if applicable)
2. Payment Terms: The Authority's standard payment terms are Net 30 days. Prompt payment discounts may be offered and must be a minimum of 10 days.

Discount: Maximum time period: _____ Percentage: _____

Note: Although prompt payment discounts will not be considered in determining low Bid, the Authority reserves the right to take advantage of any such discounts offered.

RFB R-111996

WORKSTATION CONSOLES

BID PRICE FORM

(Revised 12/23/14)

ITEM	QTY	UNIT OF MEASURE	DESCRIPTION	UNIT PRICE	TOTAL BID PRICE
1	1	Lump Sum	Mobilization Cost	\$	\$
2	4	Each	Console #1 ~ 17'L x 8'D x 29.5"H (4 person quad pod each with trimmed left corner), as per attached Specifications.	\$	\$
3	6	Each	Console #2 ~ 15'L x 4'D x 29.5"H (2 person linear pod), as per attached Specifications.	\$	\$
4	6	Each	Console #3 ~ 15'L x 4'D x 29.5"H (2 person curved pod), as per attached Specifications.	\$	\$
5	1	Each	Console #4 (quantity of 1): ~33'L x 4'D x 29.5"H (5 person curved pod), as per attached Specifications.	\$	\$
6	1	Each	Console #5 (quantity of 1): ~36'L x 4'D x 29.5"H (6 person linear pod), as per attached Specifications.	\$	\$
7	1	Each	Console #6 (quantity of 1): ~19'L x 14.5'W x 4'D x 29.5"H (3 person u-shaped pod), as per attached Specifications.	\$	\$
8	1	Each	Console #7 (quantity of 1): ~19'L x 14.5'W x 4'D x 29.5" H (2 person u-shaped pod), as per attached Specifications.	\$	\$
9	2	Each	Spare Console #1 (unassembled), as per attached Specifications.	\$	\$
10	2	Each	Spare Console #2 (unassembled), as per attached Specifications.	\$	\$
11	1	Each	Prototype Console #2 (assembled), as per attached Specifications.	\$	\$
12	60	Each	LED Task Light, as per attached Specifications.	\$	\$
13	60	Each	Mobile Storage Pedestals, as per attached Specifications.	\$	\$
14	54	Each	Cooling Fan System, as per attached Specifications.	\$	\$

15	54	Each	Height Adjustable Work Surface System with anti-collision and edge pressure sensors, as per attached Specifications.	\$	\$
16	54	Each	Personal Environmental Controls, as per attached Specifications.	\$	\$
17	60	Each	Above-Work surface Convenience Outlets (120VAC and USB), as per attached Specifications.	\$	\$
18	60	Each	Rack-Mounted Automatic Transfer Switch, as per attached Specifications.	\$	\$
19	60	Each	Wire Tray Cable Management System, as per attached Specifications.	\$	\$
20	60	Each	Sliding Keyboard Tray, as per attached Specifications.	\$	\$
21	60	Each	Interior Bay Lighting, as per attached Specifications.	\$	\$
GRAND TOTAL BID PRICE					\$

Contract award will be made based on the LOWEST GRAND TOTAL BID PRICE, in accordance with the requirements of these specifications and attached reference drawings.

ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA FAX NO LATER THAN FIVE (5) BUSINESS DAYS BEFORE THE BID OPENING.

FIRST DELIVERY DATE _____, to the site as specified in the bid specifications.

NEW JERSEY TURNPIKE AUTHORITY

Andrea E. Ward
Director, PMM Department

Name of Company

/_____
Authorized Signature of Bidder

1. **ADDENDA / INQUIRIES:** COMPLETE (if applicable) BEFORE SUBMITTING BID:

Receipt of Addendum/Inquiries # _____ dated _____ is hereby acknowledged.

Receipt of Addendum/Inquiries # _____ dated _____ is hereby acknowledged.

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CHECK BOX IF NO ADDENDA/INQUIRY ISSUED

(All Addenda / Inquiries must be acknowledged as indicated above.)

2. **BID IRREVOCABLE:** This offer shall be irrevocable for ninety (90) working days after the date on which the Authority publicly opens this Bid except in those instances where an unsuccessful Bidder has filed a bid protest pursuant to N.J.A.C. 19:9-2.12. Upon notification of a protest, Bidders are required to hold their prices for an additional 90 days. All Bidders will be notified in writing of the action taken by the Authority.
3. **OFFER/CERTIFICATION:** The undersigned offers and agrees to furnish to the New Jersey Turnpike Authority the services and/or materials in compliance with all terms, conditions, specifications and addenda of the RFB, Bid Documents, and resulting contract. The undersigned further certifies understanding and compliance with the requirements of the standard terms and conditions as stated in the Instructions to Bidders included with the Bid Documents. The undersigned certifies that he or she executes this Bid with full Authority so to do; and that all statements contained in this Bid and in this certification are true and correct, and made with full knowledge that Authority relies upon the truth of the statements contained herein and in any statements requested by Authority showing evidence of qualifications in awarding the contract.

I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

4. **AUTHORIZED SIGNATURE:** _____

Print Name and Title: _____

Bidder: _____

Address: _____

City _____ State _____ Zip: _____

E-mail address: _____

Telephone #: _____ Fax #: _____

Date: _____

NEW JERSEY TURNPIKE AUTHORITY

DRAFT CONTRACT FOR WORKSTATION CONSOLES – FURNISH AND INSTALL

CONTRACT NO. R-111996

THIS AGREEMENT, dated _____, by and between the New Jersey Turnpike Authority, a body corporate and politic of the State of New Jersey having its principal office at 581 Main Street, Woodbridge, New Jersey (“The Authority”) and _____, a corporation of the State of _____, having principal offices located at _____ (the “Contractor”).

WITNESSETH, that the said Contractor, for and in consideration of the payments hereinafter specified, hereby covenants, and agrees to furnish the labor, materials, equipment, and insurance to provide for the services specified in this contract in strict conformance with Specifications attached hereto and made a part hereof.

The term of the Agreement shall commence on the date of the Purchase Order and terminate as provided in the Specifications.

The Contractor agrees to defend, indemnify and save harmless the Authority, its officers, agents and employees and each and every one of them against and from, and to make payment of all or completed actions, suits, demands for damages or costs of every kind and description actually and reasonably incurred (including attorneys’ fees and costs and court costs) (collectively “Liabilities”) including, without implied limitations, Liabilities for damage to property or Liabilities for injury or death of the officers, agents and employees of the Contractor or of its subcontractors or of the officers, agents and employees of the Authority), resulting from any act or omission or from the willful misconduct of the Contractor or of any of its officers, agents, employees or subcontractors or of the Authority, its officers, agents, and employees, in any manner related to the subject matter of this Agreement. Any money due to the Contractor under and by virtue of this Agreement as shall be considered necessary by the Authority may be retained by the Authority and held until any and all Liabilities shall have been settled and suitable evidence to that effect furnished to the Authority. The obligations in this Section shall survive the termination, expiration or rescission of this Agreement.

In consideration of the premises, the Authority hereby agrees to pay, as sole compensation for the performance of the Project, payments for the actual quantity of authorized work performed, as provided in the Specifications, at the prices for the Scheduled Items of Work in the Proposal.

This Agreement is to be binding upon the Authority, its successor or successors, and upon the Contractor and its heirs, executor, administrators, successor or successors, and is voidable and may be terminated by the Authority, in accordance with the terms of the Specifications, or upon violation by the Contractor of any statute relative thereto.

IN WITNESS WHEREOF, the parties have caused their duly authorized representatives to execute this agreement and to affix their respective corporate seals thereto on the day and year first above written.

ATTEST:

NEW JERSEY TURNPIKE AUTHORITY

Sheri Ann Czajkowski
Secretary to the Authority

[Corporate Seal]

BY _____
Joseph W. Mrozek
Executive Director

ATTEST:

Company Name

Name / Title

[Corporate Seal]

BY _____
Name / Title

SECTION III
NO RESPONSE BID SURVEY

BID NUMBER: R-111996

BID TITLE: WORKSTATION CONSOLES – FURNISH AND INSTALL

If you do not choose to respond to this Bid, please complete the form below:

Name of Company_____

Reason you did not respond (Check all that apply):

- _____ Cannot supply product or service
- _____ Cannot meet technical specifications
- _____ Cannot meet delivery specifications
- _____ Cannot meet legal requirements
(i.e. Bid/performance/security/insurance, etc.)
- _____ Cannot provide a competitive price at this time
- _____ Interested in receiving specifications for informational purposes only
- _____ Insufficient lead time to respond
- _____ Other:(please be specific) _____
- _____
- _____
- _____
- _____ Do you wish to remain on our mailing list?
- _____ Yes _____ No

Additional comments: _____

Signed (optional): _____

Company: _____

NEW JERSEY TURNPIKE AUTHORITY

SPECIFICATIONS:

NEW JERSEY STATEWIDE TRAFFIC MANAGEMENT CENTER (STMC) PROCUREMENT OF WORKSTATION CONSOLES – FURNISH AND INSTALL

INTENT: The intent of this specification is to describe and govern the purchase and installation of new workstation console furniture and associated accessories for the Operation Floor in the NJ Statewide Traffic Management Center (STMC). The furniture shall be new and of the latest design, fabricated, sized and arranged with all noted features as described in these specifications and shown on the attached reference drawings.

SECTION 1 – GENERAL

1. This section describes the workstation consoles, and associated furniture, collectively named hereafter as “Furniture”, to be furnished and installed in the New Jersey Statewide Traffic Management Center (STMC) located at King George’s Post Road in Woodbridge, NJ. The Contractor shall furnish, assemble and install the Furniture and noted equipment, as specified herein. The workstation consoles will be fitted with computers, monitors, keyboards, mice and other equipment provided by others.
2. The Furniture includes the following items:
 - a) Workstation Consoles (hereafter referred to as “consoles”)
 - b) Mobile storage pedestals (optional)
 - c) File storage cabinets
 - d) Automatic Transfer Switch
 - e) Power outlets and USB ports
 - f) Heater Plate
 - g) Cooling Fans

PART 2 – PRODUCTS TO BE SUPPLIED

A. MANUFACTURERS INFORMATION

1. Manufacturers’ products and services must be demonstrated to the satisfaction of the Authority in all respects including quality, durability, appearance, future-expandability, and functionality.
2. Manufacturer must have an existing site (local) where consoles older than 10 years are still in use (to demonstrate longevity).

B. GENERAL INFORMATION

1. Furniture shall be fully furnished, assembled and installed in its proper place on-site as described in Part 2, Sections C.1.a through C.1.i, and shall be prepared to receive hardware equipment as supplied by others.
2. All materials used in the manufacturing of the Furniture shall meet applicable fire safety standards for each specific, potentially flammable, material. Such materials may include, but not limited to, laminates, plastics, composite wood, upholstery, and rubber.
3. All Furniture shall be designed and configured for heavy duty, 24/7/365 usage. All items shall be of the highest quality to withstand day-to-day usage, be visually pleasing, and be fully functional for the intended purpose.
4. All casework/millwork for Furniture shall conform to “Premium Grade” requirements of the *AWI, AWMAC, WI – Architectural Woodwork Standards – Section 10: Casework*
5. All console cabinetry, framework, finishes, panels and access doors are to be considered part of the Console itself and included as part of the relative pay items for the consoles. Storage and file drawers are considered an integral part of Console #6 and #7 and shall not be paid for separately, but shall be incidental to the cost of those items.

C. CONSOLES

1. **CONSOLE STRUCTURE:** Consoles shall be fabricated with the following characteristics:
 - a. Console must be comprised of a structural, internal steel frame to form an open architecture within the console, and to support equipment, as well as exterior panels and work surface elements.
 - b. Console levelers shall provide up to 1-3/4” of adjustment to accommodate uneven floor conditions.
 - c. The structural steel frame must include vertical steel frame members connected at regular intervals by horizontal steel “stringers” that span the frame structure. Vertical steel frame members must be CNC (Computer Numerically Controlled) punched and formed 12-gauge cold rolled steel. Welded tubular (or lighter gauge) steel frames are not acceptable. The welded one piece frame design must accommodate cable routing and structural mounting of the cantilevers. Frames must be finished with an electrostatic powder coating.
 - d. Overall console designs take into account ergonomic standards as set forth by American National Standards Institute/Human Factors & Ergonomic Society 100-2007: *Human Factors Engineering of Computer Workstations*.
 - e. Framing system must permit re-configuration and future-expandability when required by the owner. The Manufacturer must use construction methods employing mechanical assembly of components, which will permit knockdown

shipping, field re-assembly & future re-configuration. All consoles must be assembled initially at the Manufacturing facility, marked according to location and position as shown on drawings.

- f. The Consoles shall be of the following nominal dimensions:

Console #1 (quantity of 4): ~17'L x 8'D x 29.5"H
(4 person quad pod each with trimmed left corner)

Console #2 (quantity of 6): ~15'L x 4'D x 29.5"H
(2 person linear pod)

Console #3 (quantity of 6): ~15'L x 4'D x 29.5"H
(2 person curved pod)

Console #4 (quantity of 1): ~33'L x 4'D x 29.5"H
(5 person curved pod)

Console #5 (quantity of 1): ~36'L x 4'D x 29.5"H
(6 person linear pod)

Console #6 (quantity of 1): ~19'L x 14.5'W x 4'D x 29.5"H
(3 person u-shaped pod)

Console #7 (quantity of 1): ~19'L x 14.5'W x 4'D x 29.5" H
(2 person u-shaped pod)

See supplemental drawing Nos. 1 and 2 for reference. ALL OF THE ABOVE CONSOLES ARE TO BE FURNISHED AND ASSEMBLED (INSTALLED IN POSITION) ON SITE, IN THE LOCATIONS SHOWN IN THE SUPPLEMENTAL DRAWINGS. Any proposed deviations from the drawings, or these specifications, shall be submitted to the Authority for approval, along with reasons for the deviation.

- g. Exterior finishes and color(s) must be considered and approved by the Authority during the submittal process (see Part 1, Section D.2.c). Any restrictions on color and finish selection that would affect cost shall be stated in the bid documents.
- h. All applicable console structural steel backwalls must be divided into front and back sections such that the inner backwall (from which monitor arms are mounted) can rise independently of the fixed-height rear backwall.
- i. Four (4) spare console units shall be manufactured and supplied to site "unassembled", as a part of the full order being placed by the Authority. The spare units shall be ordered, and shipped, as the rest of the main order and stored by the Authority within their designated storage location.

The Spare Consoles shall be of the following nominal dimensions:

- a. Console #1 (quantity of 2): ~17'L x 8'D x 29.5"H
(4 person quad pod each with trimmed left corner)
- b. Console #2 (quantity of 2): ~15'L x 4'D x 29.5"H
(2 person linear pod)

Payment for the Spare Consoles shall be made for each type delivered in protective packaging to the site, unassembled.

- j. One (1) additional unit of Console #2 shall be manufactured and supplied to site as a Prototype Console prior to the full order being placed by the Authority. The Prototype unit shall be ordered, shipped, and installed separately from the (6) Console #2 units and the rest of the main order.
- k. The prototype shall include ALL of the options and features listed in this specification for a Console #2 type, including LED task light, mobile storage cabinet, cubby storage, bay lighting, above-work surface outlets, monitor mounts, automatic transfer switch, personal environmental control, cooling fans, wire cable management system, and sliding keyboard tray.

Payment for the Prototype Console shall be made, upon approval of the Authority, for the one (1) unit furnished, delivered, assembled with all accessories and tested, in a location on-site as directed by the engineer.

- l. Upon the successful delivery and assembly by the Console Manufacturer, the Authority's assigned personnel will populate the Prototype console with equipment. The Authority will then verify durability, finish, equipment layout, cabling, cooling and heating functions, and adherence to design criteria.
- m. Upon completing a 5 business day assessment period, the Authority may submit a letter to the Console Manufacturer providing either acceptance or changes on the Prototype design, if any, to be applied to the main order of console furniture. At their discretion, the Authority may revise the console design to include alternate accessories, change the mounting method or location of said accessories (provided they are within ergonomic tolerances, subject to the professional advisement of the Console Manufacturer), remove items from the console, or change color schemes and material finishes.

The Authority, at their discretion, may revise any aspect of the Prototype console, provided the alterations do not encroach on the control room's walkways or compromise the ergonomics of the consoles, per the international standards listed in Part 1, Section B.1, B.2 and B.4. These revisions shall be incorporated into the Shop Drawings by the Console

Manufacturer and submitted to the Authority for Sign Off prior to manufacturing of the main order. Minor changes and/or corrections to the consoles are within the Authorities rights to do so to meet the needs of the users, and these shall be addressed at no additional cost to the Authority. Any major modifications to the console dimensions, style, or basic structural framework would be considered a change to the basic contract requirements and design criteria.

2. EQUIPMENT MOUNTING:

- a. All consoles' monitors shall be on direct-pole stands, flush-mounted into the work surface. The mounts must provide height, rotation, and tilt adjustment. The monitor mounts must be of all-metal or metal alloy construction. The monitor mounts must be situated on the rear adjustable work surface such that the monitors cannot protrude over the edge of the rear surface, thereby preventing interference with the height adjustable work surface system.
- b. The operator's radio touch screen (mounted on its factory stand) shall be situated on the front adjustable work surface and off to the side at each position. Both the touchscreen and stand will be furnished and installed by others, and is only noted here for reference.
- c. Slat walls shall have non-proprietary pattern horizontal slats at 1" intervals. The slat wall must be a rigid aluminum structure capable of supporting task lights and other accessories with negligible deflection. The lower section of the slatwall shall accept flush-mounted power and data receptacles for operator convenience. The slat wall must be directly mounted to the frame structure (not attached to the work surface). Rear face of adjustable inner slat wall shall be covered in powder-coated metal panels.
Equipment (primarily CPUs) shall be supported on aft-sliding lower trays, except as required on back-to-back consoles, which must have fore-sliding trays. All equipment trays must be CNC-fabricated 16-gauge steel with perforations to facilitate airflow to equipment and to support equipment loads. Equipment trays must be mounted on heavy-duty steel-bearing full extension slides with 90 lbs. minimum capacity.
- d. Front and rear metal panels must be CNC-fabricated from 16-gauge cold-rolled steel and must be mounted with quick release hinges. Quick-release hinges allow for tool-less panel removal.
- e. All operator consoles must securely house and provide ventilation for (3) full-size tower CPUs per operator position, each measuring 24"H x 8"W x 18"D. Supervisor consoles (Consoles # 6 & 7) must securely house and provide ventilation for (4) full-size tower CPUs per operator position, each measuring 24"H x 8"W x 18"D.

3. WORK SURFACE

- a. Work surfaces must be designed to provide the fewest seams possible, complete with tight joint fasteners and alignment devices to provide flush, tight work surface joints.
- b. Work surfaces must be made of 1" composite wood core with a high-pressure plastic laminate on both sides. All work surfaces to have concealed fastenings.
- c. The work surface must be supported by a CNC punched and formed 12-gauge steel cantilevered system with attachment to the rear of the frame. The work surface shall be designed to withstand a static load of 200 pounds per square foot minimum.
- d. The work surface must be finished with a solid bull-nose molded rubber nosing.

4. EXTERIOR PANELS & ACCESS DOORS

- a. Front and rear exterior metal panels must be fastened to the frame structure with hinges. Panel removal must be accomplished for easy removal without the use of special tools. This shall allow for unobstructed access to equipment for servicing and maintenance.
- b. 16-gauge cold-rolled steel doors shall be finished in electrostatic powder-coating to best resist fading, chipping, burns, stains, moisture, water and wear.
- c. All hardware shall be concealed from exterior view and easily accessible from within the console for maintenance.
- d. All fastening into composite wood must be provided with a knife-edge insert holding the connector. No tap or wood screws will be acceptable.
- e. Panels shall be constructed with 16 gauge solid cold-rolled steel and finished in an electrostatic powder-coating.

5. ACCESSORIES

- a. LED Task Lights
 - 1) Applicable to all Consoles #1 through #7, and the prototype.
 - 2) One task light per operator position shall be provided
 - 3) Low voltage 9.5 watt high-output lamp fixture with 42 LEDs
 - 4) Superior color rendition index (85), with very low heat.
 - 5) Dimmable with soft-touch dimmer control
 - 6) Task light must be mounted off slat wall on applicable consoles
 - 7) Task light LEDs must have a lifespan of 50,000 hours
 - 8) LED Task Light Color Temperature: Must be between 3000K and 4000K (warm white)
 - 9) LED Task Lights shall be measured by the number of each furnished and installed.
- b. Cooling Fan System
 - 1) Height Adjustable Work Surfaces are applicable only to Consoles #1, #2, #3, #4, #6, #7, and the prototype. Console #5 does not get a cooling fan system.

- 2) Cooling fans must be incorporated into console structure to ensure that up to four (4) full tower PCs housed within each console are adequately cooled.
 - 3) Collective noise of fans not to exceed 32dB at head of seated console operator.
 - 4) Submit technical fan data to demonstrate above requirements
 - 5) Quantity of cooling fans required shall be as per the manufacturer.
 - 6) Cooling Fan System shall be measured by the number of complete systems installed for the needs of one (1) console workstation (seat).
- c. Height Adjustable Work surface System
- 1) Height Adjustable Work Surfaces are applicable only to Consoles #1, #2, #3, #4, #6, #7, and the prototype. Console #5 is a fixed console only.
 - 2) Height adjustable work surface lifting columns must be electromechanically actuated, computer controlled, and mounted to the steel frame structure.
 - 3) Lifting columns must have soft start-stop technology to ensure smooth actuation of work surface.
 - 4) Adjustable Work surfaces must include hardware-based anti-collision detection systems.
 - 5) Adjustable work surfaces must include edge pressure-sensors to prevent pinching Or crushing. If bumped while a work surface is moving, the edge-sensing system must reverse the direction of travel by 3/4", and disable work surface movement until the related "Reset Button" is pressed and the system is reactivated. Reset buttons are located on the console. Automatic reset mode must instantly reset the system as soon as pressure against the bumper is released.
 - 6) Adjustable work surfaces must include a flush-mounted LED display control pad for operator adjustment. Control pad must include memory settings for work surface height.
 - 7) Both the front working table (keyboard section) and the rear backwall/monitor section of the console shall be height adjustable, each independently controlled.
 - 8) Height Adjustable Work surface System shall be measured by the number of complete systems installed for the needs of one (1) console workstation (seat).
- d. Personal Environment Control
- 1) Height Adjustable Work Surfaces are applicable only to Consoles #1, #2, #3, #4, #6, #7, and the prototype. Console #5 does not have environmental controls.
 - 2) (2) work surface mounted air-diffusers allow operators to adjust air speed and direction. Fan airflow rating shall be: 57.0 CFM; 1750 RPM. Noise: 32 dB. Power rating: 9 watts. Voltage:120VAC.
 - 3) Occupancy sensor shall detect operator presence via infrared technology. If not seated, microprocessor shall switch off environment control accessories. Sensor must have a minimum battery life of 10 years and be RoHS compliant.
 - 4) Radiant heater panel must provide ample heat for operators' feet and legs, and mount on the lower front panel. Heater must be UL Listed product, less than or equal to 170 watts, with a maximum surface temperature of 180 degrees F. Radiant heater panel shall include adjustable thermostat for temperature regulation.

- 5) Wireless control must feature a 10-year battery life; be operable within 30' of the console, and control air, heat, and light.
 - 6) Personal Environmental Control shall be measured by the number of complete systems installed for one (1) console workstation (seat).
- e. Above-Work surface Convenience Outlets
- 1) Applicable to all Consoles #1 through #7, and the prototype.
 - 2) Each operator position shall include (1) duplex power receptacles rated 15A/120VAC, (2) USB ports and a 3.5mm stereo headphone port with extender cable for connection to audio source. USB receptacles shall be 2.1A for powering devices only and must not be connected to the CPUs. Convenience Outlets must be UL Listed, CSA certified. Power receptacles shall be connected to the pre-wired power distribution system for Utility service. All convenience outlets shall be mounted in the lower slatwall.
 - 3) A powerstrip of receptacles mounted behind the monitors shall be provided along the backwall to support power for up to (6) potential monitors. This would allow the need for only one power cord to be routed through the cable management system to the local automatic transfer switch below.
 - 4) Each operator position shall include (1) slatwall-mounted device box, complete with duplex USB 3.0 receptacles for extending the operator's keyboard and mouse. Cables shall be run through the consoles' cable management system.
 - 5) Above-Work surface Convenience Outlets shall be measured by the number of each system of power and USB outlets installed per above for the needs of one (1) console workstation (seat).
- f. Rack-Mounted Automatic Transfer Switch
- 1) Applicable to all Consoles #1 through #7, and the prototype.
 - 2) APC AP7752 Automatic Transfer Switch (120VAC) shall be rackmount rail mounted within the control cavity and connected to UPS A and UPS B power, coming from floorboxes beneath the console.
 - 3) Automatic Transfer Switch shall feature (2) 8' cords with L5-20 plug ends for (2) incoming power feeds and feature (10) NEMA 5-20R output receptacles.
 - 4) One run of pre-wired power distribution shall be run throughout each console for powering vent fans and other accessories on the Utility circuit(s). The power entry shall be through the floor as per the UPS power service. Utility power distribution system must include a 20' long whip for connection to floorboxes beneath the consoles.
 - 5) Power receptacles shall be mounted in the lower backwall on applicable consoles for supplying power to the monitors. These backwall mounted receptacles shall be connected to the ATS for UPS service.
 - 6) Rack-Mounted Automatic Transfer Switch shall be measured by the number of each ATS installed for one (1) console workstation.

- g. Wire Tray Cable Management System
 - 1) Applicable to all Consoles #1 through #7, and the prototype.
 - 2) Each console must include a horizontal run of 2x4" steel cable management tray, composed of 0.187 diameter wire, welded into a 2" x 4" grid. Cable management shall be ETL listed product.
 - 3) Wire Tray Cable Management System shall be measured by the number of complete systems installed for one (1) console workstation (seat).
- h. Sliding Keyboard Tray
 - 1) Applicable to all Consoles #1 through #7, and the prototype.
 - 2) Slide-out keyboard trays shall be provided for every operator position. Mice shall be located on the work surface.
 - 3) Cables for mice and keyboards shall pass through runs of cable management for connection to USB extenders in the backwall. Cables from the USB extenders shall pass through cable management for connection to the CPUs in the console control cavity. Cables must be neatly hidden and protected.
 - 4) Sliding Keyboard Tray shall be measured by the number of complete systems installed for one (1) console workstation (seat).
- i. Interior Bay Lighting
 - 1) Applicable to all Consoles #1 through #7, and the prototype.
 - 2) All console control cavities shall have interior lighting to enable easy maintenance. Interior bay lighting shall be connected to Utility power distribution.
- j. All electrical devices and work must be in accordance with National Electrical Code and all state and local applicable codes.
- k. All electrical hardware and materials must be UL approved.

D. MOBILE STORAGE PEDESTALS (For Consoles #1 through #4)

- a. Must be Premium or Custom Grade Construction. Must be proud steel front with integrated cam lock. Steel box drawer construction with metal bottom and rear panels. Nominal dimensions 21"H x 15"W x 22"D.
- b. Pedestals must be mobile on casters and feature two drawer units: (1) file, (1) box.

E. STORAGE UNITS & PRINT STATION (For Consoles #6 and #7)

1. Must be Premium or Custom Grade Construction and finished with the same powder-coating and work surface as the Supervisor Consoles. Drawers must have proud steel front with integrated cam lock. Steel box drawer construction with metal bottom and rear panels is required. Nominal dimensions per file-file: 28"H x 36"W, 18"D.
2. Lateral file drawers to accommodate letter-size or legal-size folders from side-to-side. Front-to-back filing option on hang rails to be provided. Provide mechanical interlock to allow only one drawer to open at a time. Draw slides to be three-part, telescoping, steel ball-bearing system to permit full depth access.
3. Each file-file storage unit shall include an integrated cam lock.
4. Cabinets shall be steel with electrostatic powder-coating to match the consoles. Color to be considered and approved by AUTHORITY
5. Storage unit sections shall be accessible from both sides and extend ~13' from the rear of the Supervisor consoles. The storage sections' work surfaces must be continuous and the same height as the consoles' work surface to provide a unified appearance.
6. Console #7 shall include a Print Station with enough room for (3) full-size printers on the work surface. Cables shall be routed through grommets to data and power receptacles in the control cavity of the console.
7. Supervisor Consoles' (#6 & #7) storage units shall include cubbies in the lower rear sections for operator storage. Cubbies must not interfere with equipment storage in the console. Cubbies shall be nominally 18"H x 18"W x 14.5"D.

F. REAR CUBBY STORAGE (within Consoles #2, #3, #4, #6 and #7)

1. Consoles #2, #3, #4, #6, and #7 shall have cubby storage incorporated into the rear control cavity for operator belongings. The purpose is to allow operators to turn around from their workstation and have open, available cubby storage in the console behind them.
2. Cubby storage shall be open and accessible from the rear of the console. Cubby storage must not eliminate the space available for CPU and equipment within the console. Cubbies shall be nominally 18"H x 18"W x 14.5"D.
3. Cubby storage shall be finished in a color matching the console exterior panels, as approved by the Authority.

SECTION 3 – INSTALLATION AND OTHER CONTRACT PROVISIONS

A. PRODUCT HANDLING

1. A. All Furniture shall be delivered, stored in a dry environment, and handled in a manner to prevent damage and warping.

B. INSTALLATION

1. Qualified Installer:
 - a) A qualified employee of the Manufacturer, or certified representative of the Manufacturer, shall supervise all placing and installation of the consoles.
 - b) The work shall be performed by an employee having a minimum 5 years' experience in the installation of the specified materials on comparable projects. The firm or personnel shall have approval of the manufacturer. Evidence shall be provided of successful completion of work of similar scope to that shown and specified for this project.
2. A separate delivery and installation for the Prototype Console (Part 2, Section C.1.f) shall be required.
3. Delivery and installation of the various Console types shall be in strict accordance with the Statewide Traffic Management Center (STMC) Floorplan Modification project. Delivery shall take place in stages. The attached schedule provides approximate delivery dates. Actual dates may differ based on Contractor progress. The furniture manufacturer shall closely coordinate with the Authority on the actual progress schedule.

C. WARRANTY

1. Manufacture shall guarantee Furniture to be free of defects due to materials and workmanship, from the day Furniture is placed in active service, as described below:
 - a) Lifetime warranty on all fixed structural frame components.
 - b) Lifetime warranty (parts) on all adjustable, sliding, or hinged mechanisms or parts (5 years on labor).
 - c) TEN (10) year warranty on all fixed exterior panels, work surface, and associated components.
 - d) Five (5) year warranty on all electrical items, including electro-mechanical lifting columns.

D. APPLICABLE STANDARDS

All Furniture and Installations must comply with the following:

1. American National Standards Institute/Human Factors & Ergonomic Society 100-2007: *Human Factors Engineering of Computer Workstations*.
 - a) User Postures (ANSI 8.2.1)
 - b) Leg & Foot Clearance (ANSI 5.2.2.1, 8.3.2.1.2)
 - c) Device Cabling (ANSI 5.2.1.5)
 - d) Adjustable Work surfaces (ANSI 8.3.2.1)
 - e) Sit-Stand Console Designs (ANSI 8.3.2.4.3)
 - f) Monitor Support Surface (ANSI 5.2.4.2)
 - g) Stability (ANSI 8.3.1.1)
 - h) Finish of Furniture and Accessories (ANSI 8.3.1.4)
2. Control Center Ergonomics Standards
 - a) Principles for the design of control centers (ISO 11064-1:2000)
 - b) Layout and dimensions of workstations (ISO 11064-4:2013)
 - c) Displays and controls (ISO 11064-5:2008)
 - d) Environmental requirements for control centers (ISO 11064-6:2005)
 - e) v. Principles for the evaluation of control centers (ISO 11064-7:2006)
3. Americans with Disabilities Act (1990)
 - a) Leg and Foot Clearances (ADA A4.32.3)
 - b) Adjustable Work surfaces (ADA A4.32.4)
4. AWI, AWMAC, WI – Architectural Woodwork Standards
 - a) Casework (AWS Edition 1, 2009 – §10.1.1.4)

E. QUALITY ASSURANCE

1. Manufacturer Qualifications: Firm experienced in producing Furniture for operational control facilities similar to this Project, with a record of successful in-service performance of at least 20 years, and sufficient production capacity to produce the required furniture in less than 14 weeks from Notice to Proceed. Manufacturer shall have a business continuity plan in place to ensure the schedule is maintained.
2. All consoles shall be from one vendor and one manufacturer for.
3. Provide at least three (3) references, with contact names and addresses, for other operational control facilities where similar Furniture to that specified has been installed.
4. Console manufacturer must be ISO 9001:2008 certified.

F. SUBMITTALS

1. The Contractor shall provide the following information for approval as part of the bid package:
 - a) Theater layout plan of consoles. Individual/typical console plans, elevation, and cross section drawings showing specific details and dimensions.
 - b) Catalog cuts & detailed specifications for all supplemental items.
 - c) Insurance certificate.
 - d) Any other project-specific documentation
 - e) Manufacturers' ISO 9001:2008 certificate.
2. Upon Award, the Vendor will provide a Furniture installation document containing the following information:
 - a) Shop drawings, installation plans, and delivery schedule.
 - b) Drawings of consoles to permit full coordination of the equipment to be provided by others.
 - c) Sample Materials, finishes and colors.
 - d) Cooling fan data (see Part 2, Section C.5.b)
 - e) Material fire safety standards compliance for each material (see Part 2, Section B.3)
 - f) Computer generated three-dimensional renderings and walk-thru graphics presentation of consoles within Project theater environment (STMC).
 - g) Furnish full-size paper floor templates for individually mounting each console. These templates shall be accurately placed at each console location, and then inspected and approved by both, the New Jersey Turnpike Authority (the Authority) and the Manufacturer before acceptance on site is permitted of any completed console.

SCHEDULE OF DELIVERY MILESTONES

Task Description	Milestone Dates		
	Qty	Begin Date	End Date
Notice to Proceed for Furniture Procurement		2/17/15	2/17/15
Shop Drawing Reviews		2/17/15	3/16/15
Prototype Console Delivery and Evaluation Period	1	5/5/15	5/11/15
<u>Stage 2A</u>			
Delivery and Assembly of Console #1	3	4/21/15	4/27/15
<u>Stage 3</u>		7/21/15	8/3/15
Delivery and Assembly of Console #1	1	7/21/15	7/23/15
Delivery and Assembly of Console #6	1	7/24/15	7/27/15
Delivery and Assembly of Console #7	1	7/27/15	7/28/15
Delivery and Assembly of Console #3	2	7/28/15	8/3/15
<u>Stage 5</u>			
Delivery and Assembly of Console #2	6	8/11/15	8/24/15
<u>Stage 7</u>			
Delivery and Assembly of Console #3	4	9/1/15	9/11/15
Delivery and Assembly of Console #4	1	9/14/15	9/16/15
Delivery and Assembly of Console #5	1	9/16/15	9/18/15
Delivery of Spare Consoles #1	2	9/1/15	9/18/15
Delivery of Spare Consoles #2	2	9/1/15	9/18/15

NOTE: Construction Stages are based on those from the STMC Floor Plan Modification Contract No. A500.371. The work under that contract will determine the actual required dates of delivery. Delivery dates provided are approximate only. The duration window for the construction contract is April 2015 through September 2015.

[illegible]

Date _____



